OTHER INFRASTRUCTURE

lsewhere in *Power Where You Need It* we have featured dozens of applications where photovoltaics plays a part—or takes the lead—when it comes to our national infrastructure. Webster defines infrastructure as an "underlying foundation or basic framework." Here, infrastructure is meant to include all the many fundamental, vital ways in which we are inter-connected: Our means of travel (roads, waterways, and railways); our means of power (our electric grid); and our telecommunications systems.

Shown here are examples of other components of a basic national infrastructure: satellites, telephones, cable television, subway transportation, oil and gas pipelines, and water systems.

Photovoltaics has even played a part in our airways: in Antarctica, PV-powered runway lights have been used.



△ A 1997 Mars Pathfinder satellite, one of several NASA explorations of the Red Planet. [Rendition courtesy National Aeronautics and Space Administration]



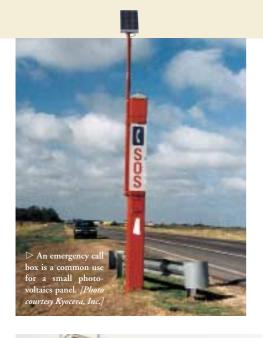


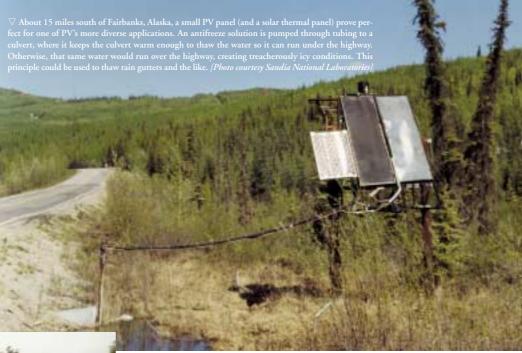


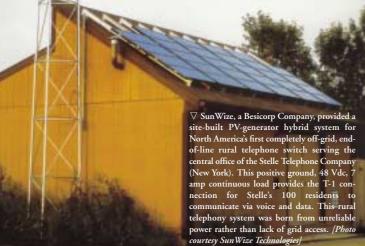
△ Washington Metro Subway System makes excellent use of PV to power indicator lights for their trains. Since most of the system's trains are underground, it was difficult for bus drivers to know when trains were approaching. Passenger complaints at missing their connections have greatly diminished, as the bus drivers now see the flash of lights signaling an approaching subway train. The system uses Solarex panels. [Photos courtesy Atlantic Solar Products]

∇ On a lonely stretch of beach between two Florida cities, a cable TV operator discovers greatly increased customer service through the use of solar energy. This system is powered by a 900W SEPCO system, which contains 21kWhs of sealed Gel battery storage located at the far side of the array. [Photo courtesy Solar Electric Power Company – SEPCO]











△ A Hutton Communications installation for a natural gas utility provides flow monitoring for oil pipelines and wells in Oklahoma and elsewhere. This type of remote telemetry is an ideal application for photovoltaics. [Photo courtesy Hutton Communications]

▷ A Siemens panel provides power for a public telephone where there would otherwise be none. This type of application is an excellent match for PV whether in a foreign country or in the United States. [Photo courtesy Siemens Solar]

